

FIG. 1a
PRIOR ART

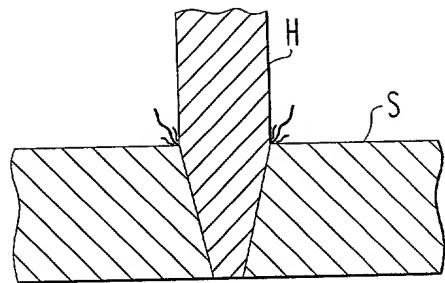


FIG. 1b
PRIOR ART

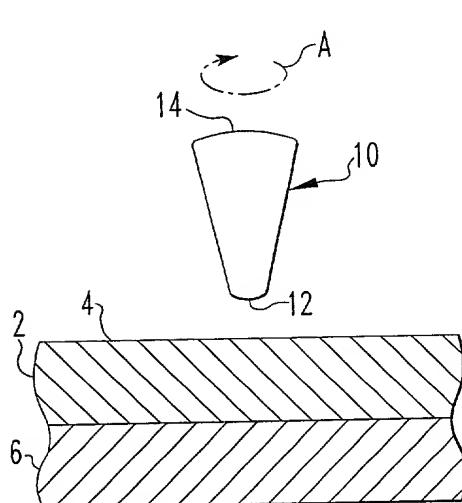


FIG. 2a

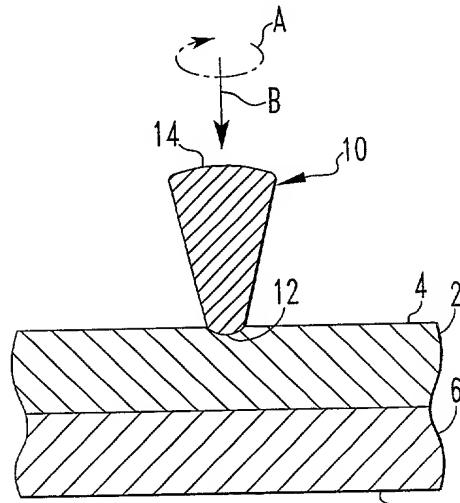


FIG. 2b

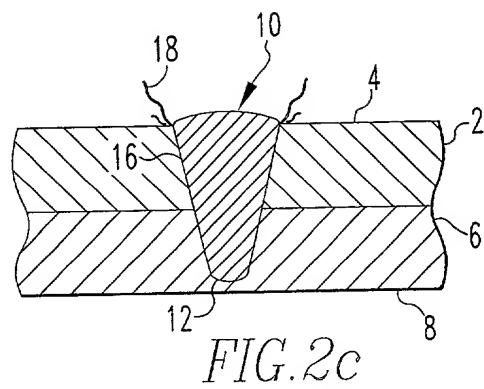
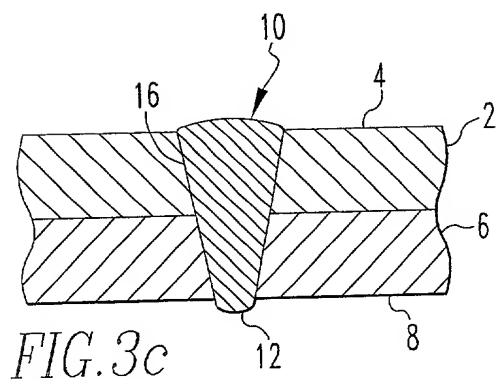
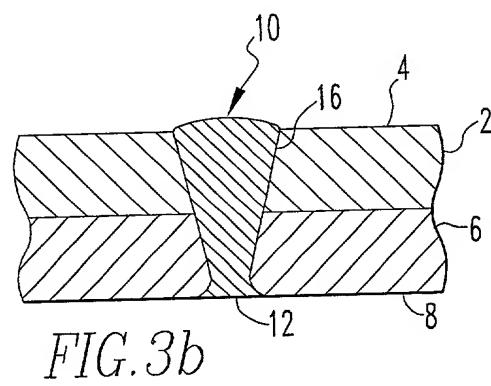
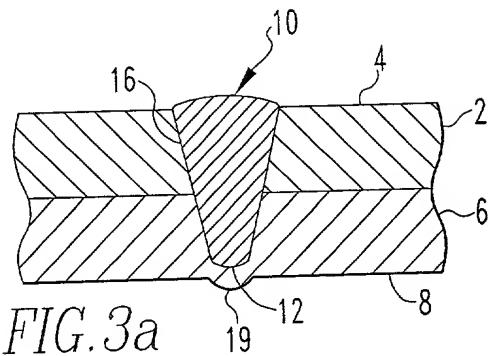


FIG. 2c



“Friction Plunge Riveting”
Inventor Stol et al.; Alcoa Ref. 00-2521

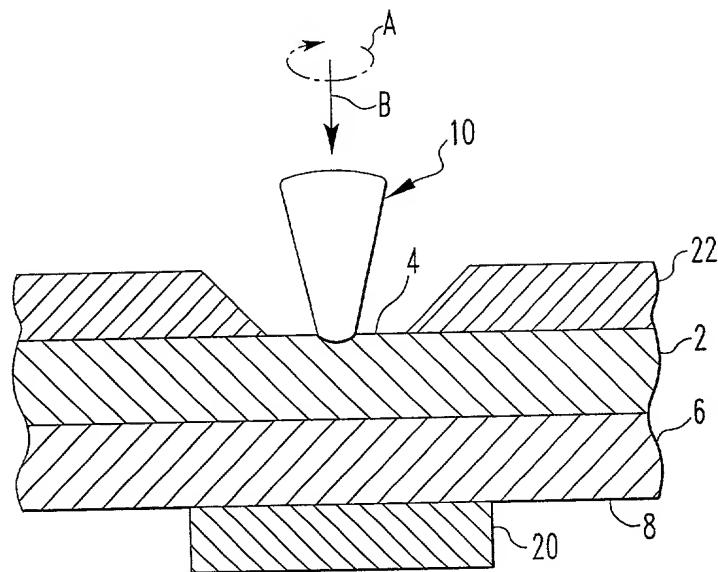


FIG. 4a

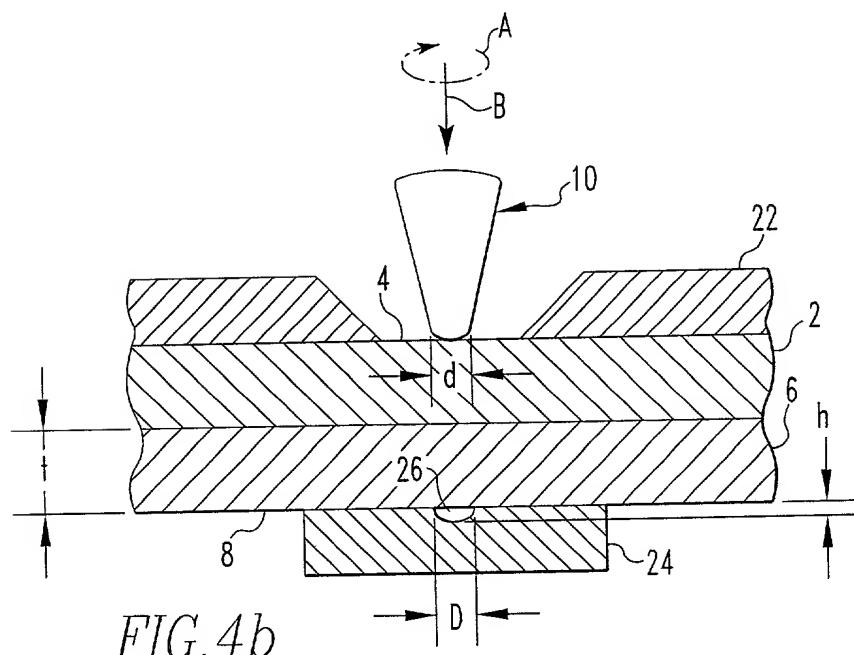


FIG. 4b

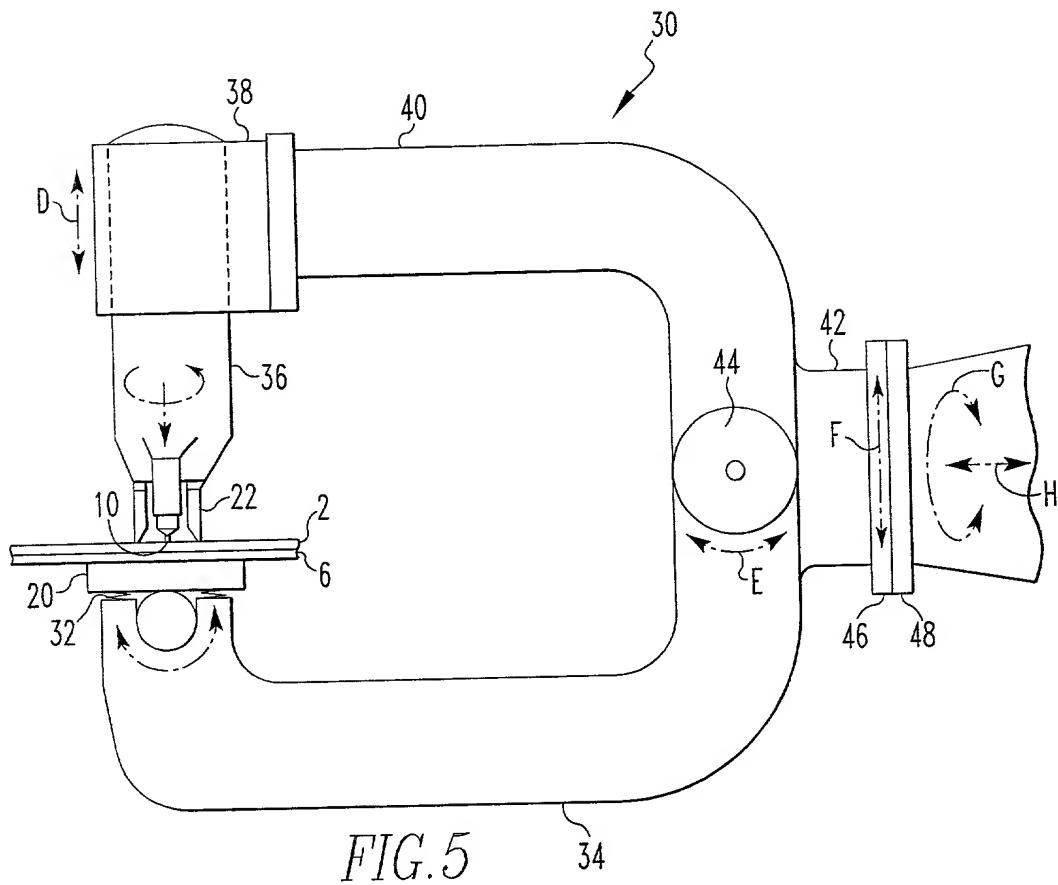


FIG. 5

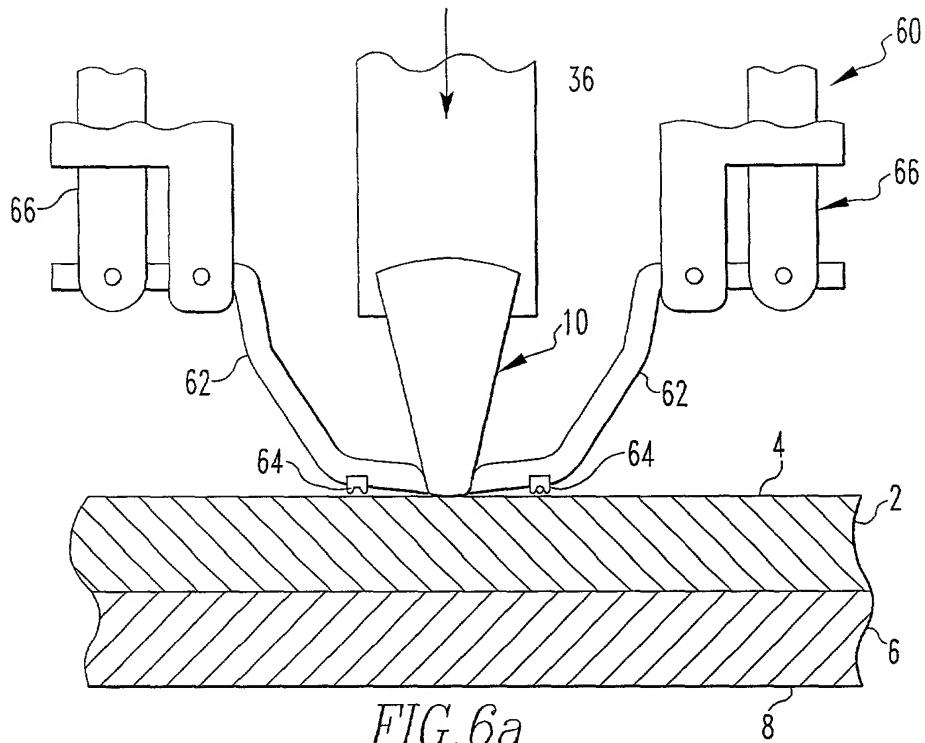


FIG. 6a

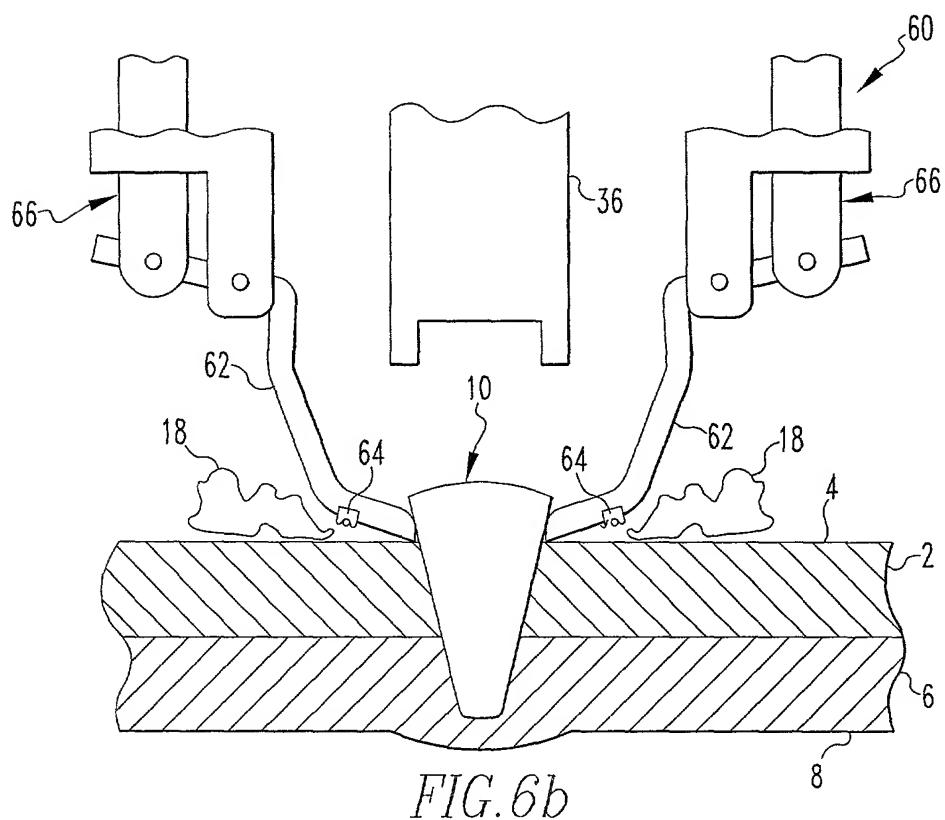
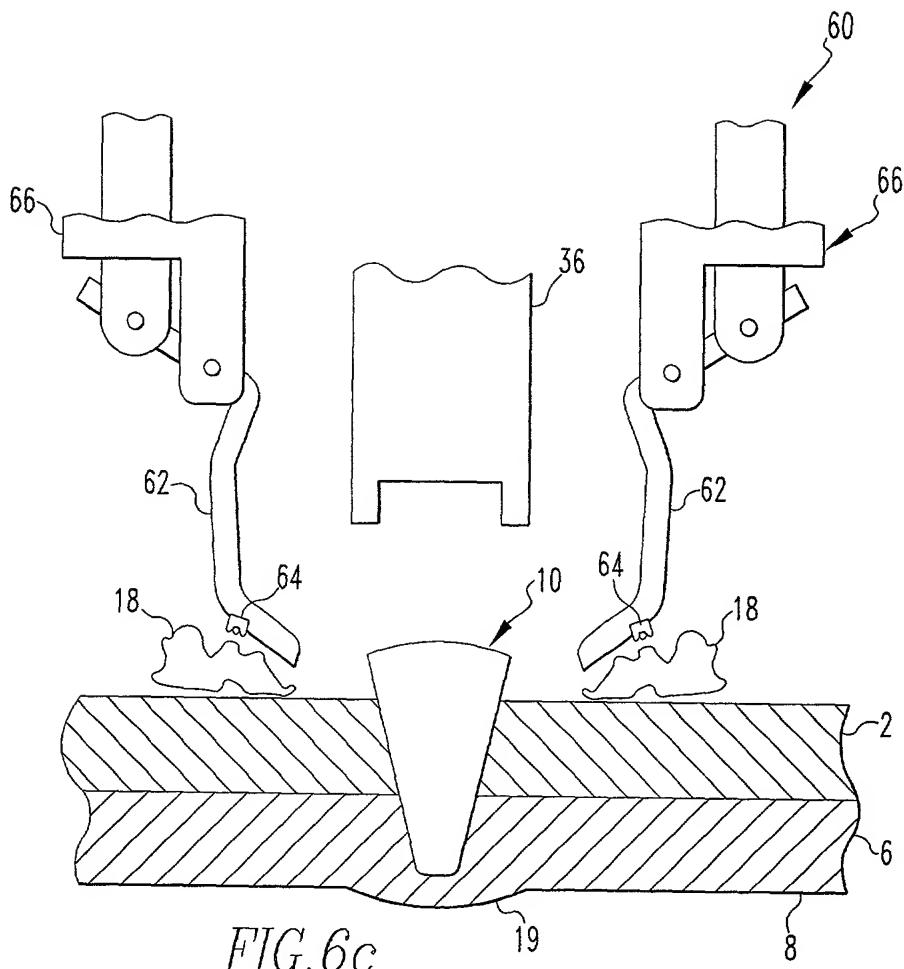


FIG. 6b

“Friction Plunge Riveting” Inventor Stol et al.; Alcoa Ref. 00-2521



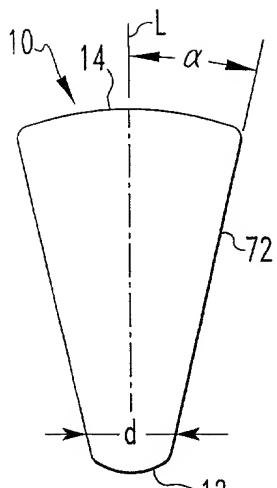


FIG. 7a

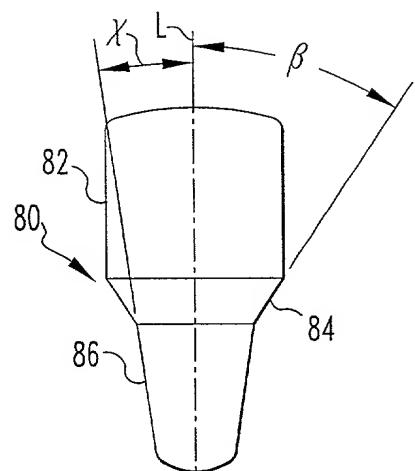


FIG. 7b

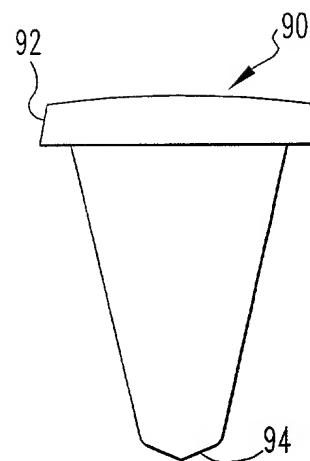


FIG. 7c

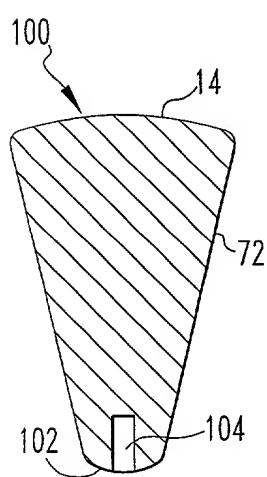


FIG. 7d

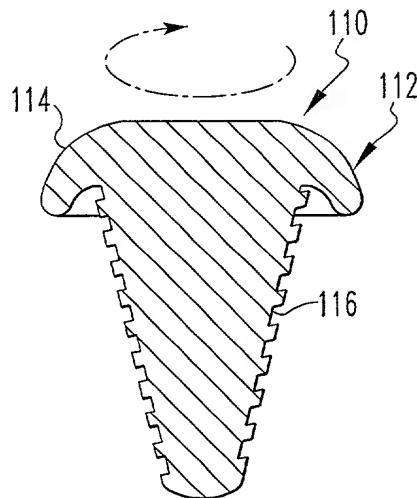


FIG. 7e

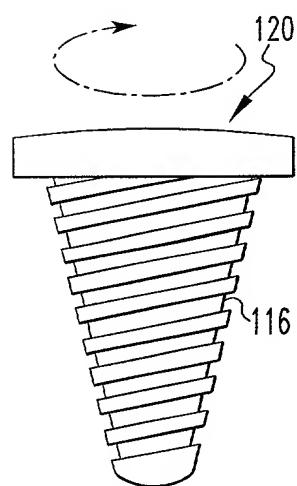


FIG. 7f

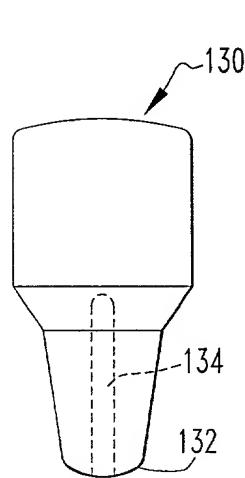


FIG. 7g

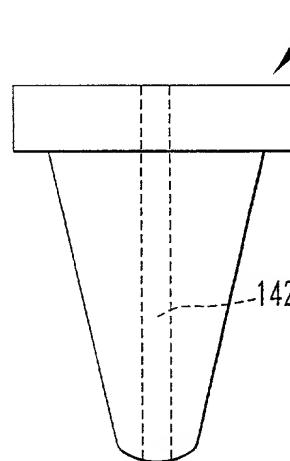


FIG. 7h

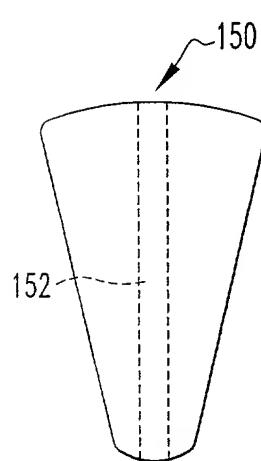


FIG. 7i

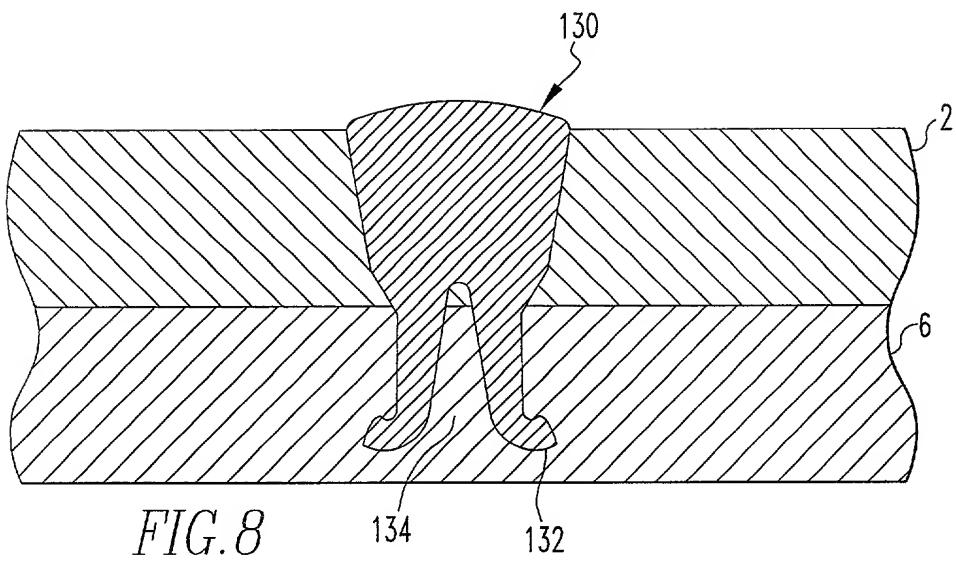


FIG. 8

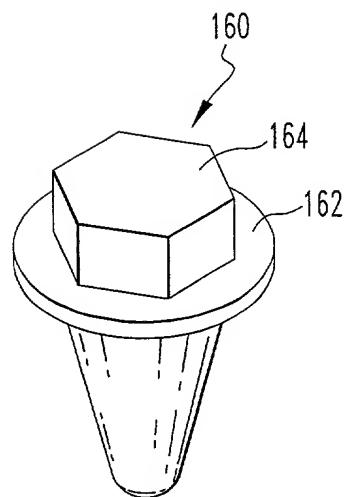


FIG. 9a

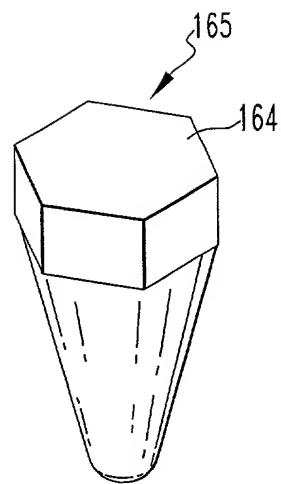


FIG. 9b

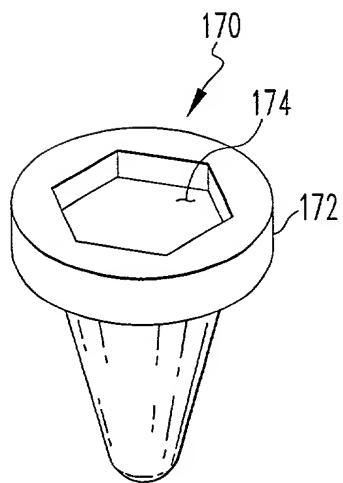


FIG. 9c

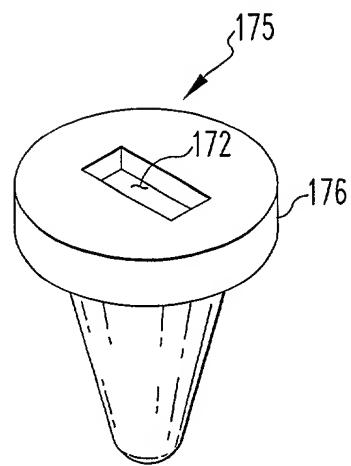
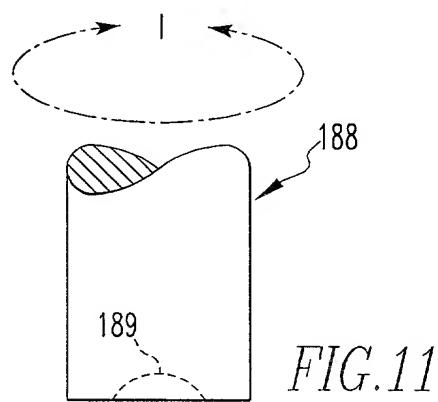
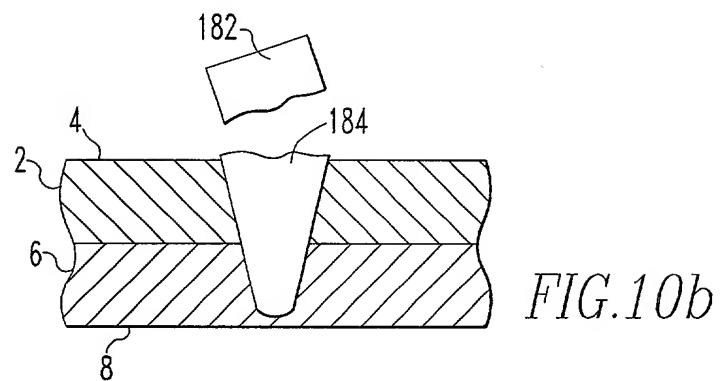
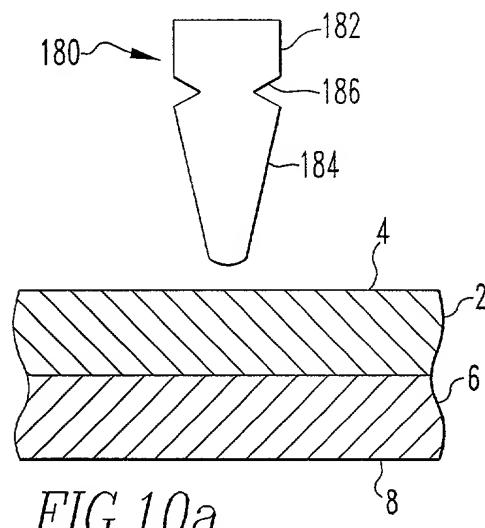
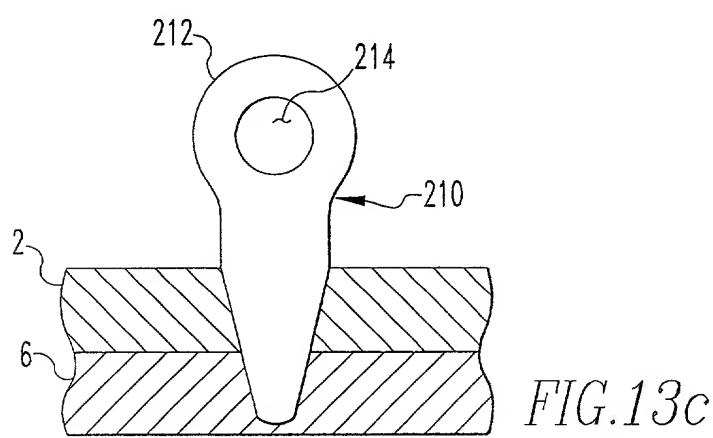
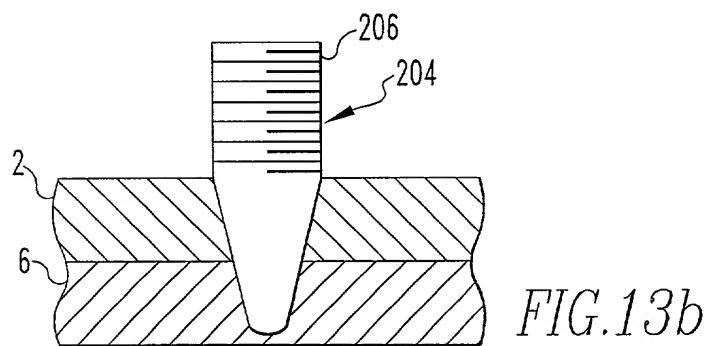
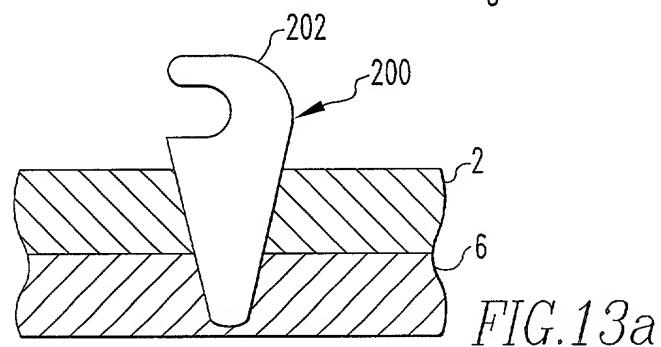
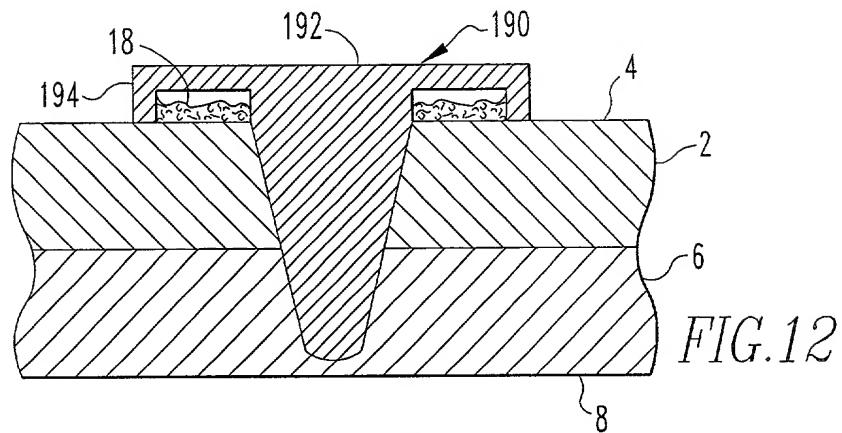
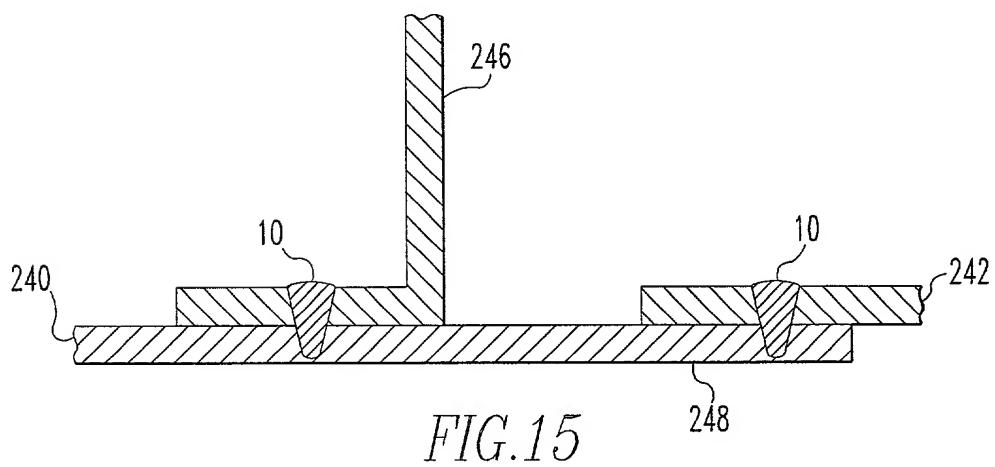
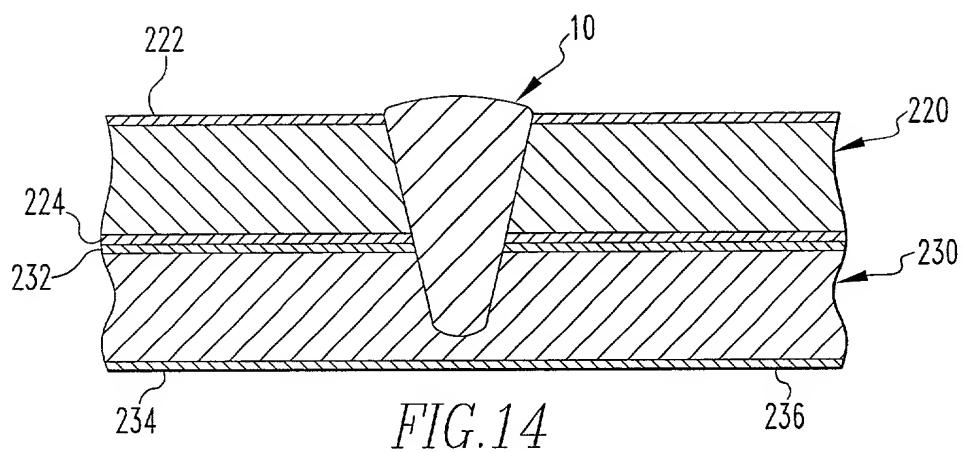


FIG. 9d







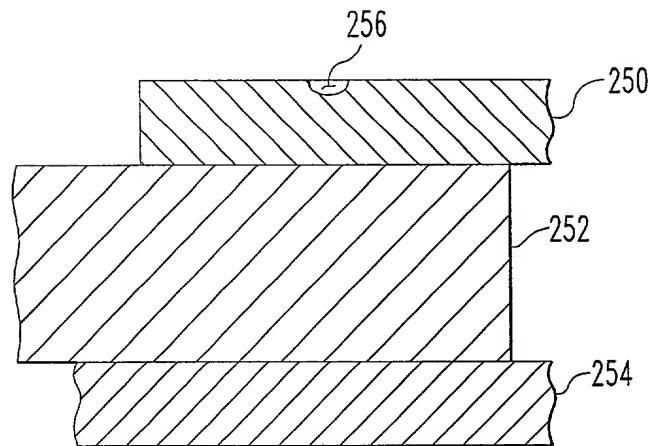


FIG. 16a

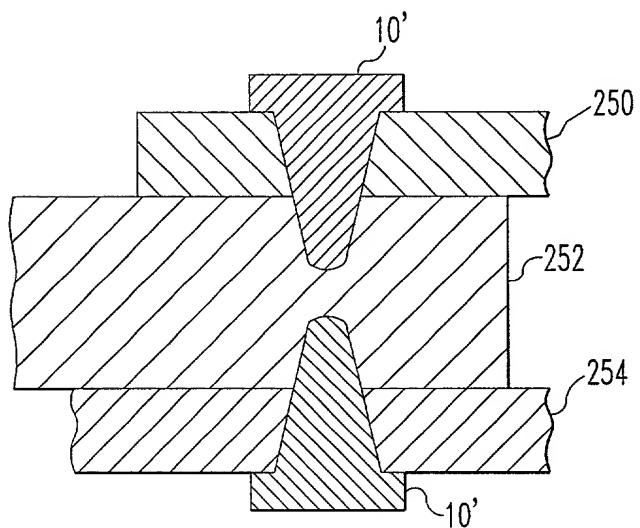


FIG. 16b